RIDE WITHIN YOUR ABILITIES

This manual cannot teach you how to control direction, speed, or balance. That's something you can learn only through practice. But control begins with knowing your abilities and riding within them, along with knowing and obeying the rules of the road.

BASIC VEHICLE CONTROL

BODY POSITION

To control a motorcycle well:

- Posture Sit so you can use your arms to steer the motorcycle rather than to hold yourself up.
- Seat Sit far enough forward so that arms are slightly bent when you hold the handlegrips.
 Bending your arms permits you to press on the handlebars without having to stretch.
- Hands Hold the handlegrips firmly to keep your grip over rough surfaces. Start with your right wrist flat. This will help you keep from accidentally using too

much throttle. Also, adjust the handlebars so your hands are even with or below your elbows. This permits you to use the proper muscles for precision steering.

- Knees Keep your knees against the gas tank to help you keep your balance as the motorcycle turns.
- Feet Keep your feet firmly on the footpegs to maintain balance. Don't drag your feet. If your foot catches on something, you can be injured and it could affect your control of the motorcycle. Keep your feet near the controls so you can get to them fast if needed. Also, don't let your toes point downward they may get caught between the road and the footpegs.

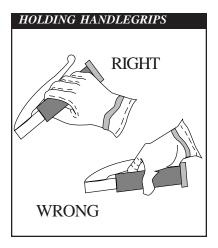
SHIFTING GEARS

There is more to shifting gears than simply getting the motorcycle to pick up speed smoothly. Learning to use the gears when downshifting, turning, or starting on hills is important for safe motorcycle operation.

Shift down through the gears with the clutch as you slow or stop. Remain in first gear while you are stopped so that you can move out quickly if you need to.

SHIFTING GEARS

BODY POSITION



Make certain you are riding slowly enough when you shift into a lower gear. If not, the motorcycle will lurch, and the rear wheel may skid. When riding downhill or shifting into first gear you may need to use the brakes to slow enough before downshifting safely. Work towards a smooth, even clutch release, especially when downshifting.

It is best to change gears before entering a turn. However, sometimes shifting while in the turn is necessary. If so, remember to do so smoothly. A sudden change in power to the rear wheel can cause a skid.

BRAKING

Your motorcycle has two brakes: one each for the front and rear wheel. Use both of them at the same time. The front brake is more powerful and can provide at least *three-quarters* of your total stopping power. The front brake is safe to use if you use it properly.

Remember:

- Use both brakes every time you slow or stop. Using both brakes for even "normal" stops will permit you to develop the proper habit or skill of using both brakes properly in an emergency. Squeeze the front brake and press down on the rear. Grabbing at the front brake or jamming down on the rear can cause the brakes to lock, resulting in control problems.
- If you know the technique, using both brakes in a turn is possible, although it should be done very carefully. When leaning the motorcycle some of the traction is used for cornering. Less

traction is available for stopping. A skid can occur if you apply too much brake. Also, using the front brake incorrectly on a slippery surface may be hazardous. Use caution and <u>squeeze</u> the brake lever, never grab.

• Some motorcycles have integrated braking systems that link the front and rear brakes together by applying the rear brake pedal. (Consult the owner's manual for a detailed explanation on the operation and effective use of these systems.)

TURNING

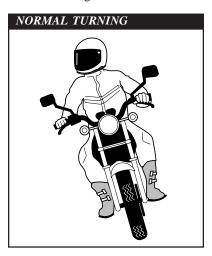
Riders often try to take curves or turns too fast. When they can't hold the turn, they end up crossing into another lane of traffic or going off the road. Or, they overreact and brake too hard, causing a skid and loss of control. Approach turns and curves with caution.

Use four steps for better control:

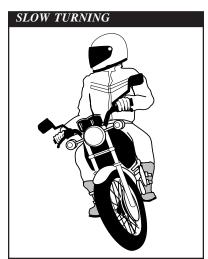
- SLOW
- LOOK
- LEAN
- ROLL
- **SLOW** Reduce speed before the turn by closing the throttle and, if necessary, applying both brakes.
- LOOK Look through the turn to where you want to go. Turn just your head, not your shoulders, and keep your eyes level with the horizon.
- LEAN To turn, the motorcycle must lean. To lean the motorcycle, press on the handgrip in the direction of the turn. Press left lean left go left. Press right lean right go right. Higher speeds and/or tighter turns require the motorcycle

ROLL — Roll on the throttle through the turn to stabilize suspension. Maintain steady speed or accelerate gradually through the turn. This will help keep the motorcycle stable.

In normal turns, the rider and the motorcycle should lean together at the same angle.



In slow tight turns, counterbalance by leaning the motorcycle only and keeping your body straight.



Test Yourself

When riding, you should:

- A. Turn your head and shoulders to look through turns.
- B. Keep your arms straight.
- C. Keep your knees away from the gas tank.
- D. Turn just your head and eyes to look where you are going.

Answer - page 40

KEEPING YOUR DISTANCE

The best protection you can have is distance — a "cushion of space" — all around your motorcycle. If someone else makes a mistake, distance permits you:

- Time to react.
- Space to maneuver.

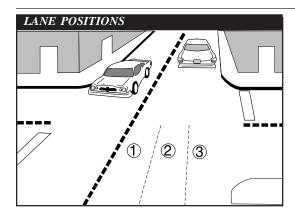
LANE POSITIONS

In some ways the size of the motorcycle can work to your advantage. Each traffic lane gives a motorcycle three paths of travel, as indicated in the illustration.

Your lane position should:

- **Increase** your ability to see and be seen.
- Avoid others' blind spots.
- Avoid surface hazards.
- Protect your lane from other drivers.
- Communicate your intentions.
- Avoid wind blast from other vehicles.
- Provide an escape route.

Select the appropriate path to maximize your space cushion and make yourself more easily seen by



In general, there is no single best position for riders to be seen and to maintain a space cushion around the motorcycle. No portion of the lane need be avoided — including the center.

Position yourself in the portion of the lane where you are most likely to be seen and you can maintain a space cushion around you. Change position as traffic situations change. Ride in path 2 or 3 if vehicles and other potential problems are on your left only. Remain in path 1 or 2 if hazards are on your right only. If vehicles are being operated on both sides of you, the center of the lane, path 2, is usually your best option.

The oily strip in the center portion that collects drippings from cars is usually no more than two feet wide. Unless the road is wet, the average center strip permits adequate traction to ride on safely. You can operate to the left or right of the grease strip and still be within the center portion of the traffic lane. Avoid riding on big buildups of oil and grease usually found at busy intersections or toll booths.

FOLLOWING ANOTHER VEHICLE

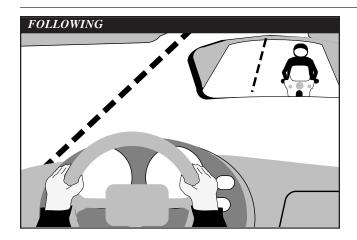
"Following too closely" is a major factor in crashes involving motorcyclists. In traffic, motorcycles need as much distance to stop as cars. Normally, *a minimum of two seconds* distance should be maintained behind the vehicle ahead.

To gauge your following distance:

- Pick out a marker, such as a pavement marking or lamppost, on or near the road ahead.
- When the rear bumper of the vehicle ahead passes the marker, count off the seconds: "one-thousand-one, one-thousand-two."
- If you reach the marker before you reach "two," you are following too closely.

A two-second following distance leaves a minimum amount of space to stop or swerve if the driver ahead stops suddenly. It also permits a better view of potholes and other hazards in the road.

A larger cushion of space is needed if your motorcycle will take longer than normal to stop. If the pavement is slippery, if you cannot



see through the vehicle ahead, or if traffic is heavy and someone may squeeze in front of you, open up a three second or more following distance.

Keep well behind the vehicle ahead even when you are stopped. This will make it easier to get out of the way if someone bears down on you from behind. It will also give you a cushion of space if the vehicle ahead starts to back up for some reason.

When behind a car, ride where the driver can see you in the rearview mirror. Riding in the center portion of the lane should put your image in the middle of the rearview mirror — where a driver is most likely to see you.

Riding at the far side of a lane may permit a driver to see you in a sideview mirror. But remember that most drivers don't look at their sideview mirrors nearly as often as they check the rearview mirror. If the traffic situation allows, the center portion of the lane is usually the best place for you to be seen by the drivers ahead and to prevent lane sharing by others.

BEING FOLLOWED

Speeding up to lose someone following too closely only ends up with someone tailgating you at a higher speed.

A better way to handle tailgaters is to get them in front of you. When someone is following too closely, change lanes and let them pass. If you can't do this, slow down and open up extra space ahead of you to allow room for both you and the tailgater to stop. This will also encourage them to pass. If they don't pass, you will have given yourself and the tailgater more time and space to react in case an emergency does develop ahead.

PASSING AND BEING PASSED

Passing and being passed by another vehicle is not much different than with a car. However, visibility is more critical. Be sure other drivers see you, and that you see potential hazards.

PASSING

- 1. Ride in the left portion of the lane at a safe following distance to increase your line of sight and make you more visible. Signal and check for oncoming traffic. Use your mirrors and turn your head to look for traffic behind.
- 2. When safe, move into the left lane and accelerate. Select a lane position that doesn't crowd the car you are passing and provides space to avoid hazards in your lane.
- **3. Ride through the blind spot** as quickly as possible.
- Signal again, and complete mirror and headchecks before returning to your original lane and then cancel signal.

Remember, passes must be completed within posted speed limits, and only where permitted. Know your signs and road markings!

BEING PASSED

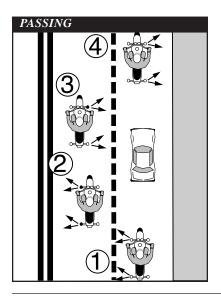
When you are being passed from behind or by an oncoming vehicle,

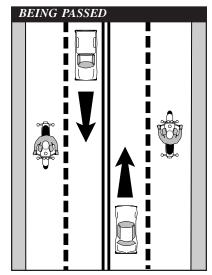
stay in the center portion of your lane. Riding any closer to them could put you in a hazardous situation.

Avoid being hit by:

- The other vehicle A slight mistake by you or the passing driver could cause a sideswipe.
- Extended mirrors Some drivers forget that their mirrors hang out farther than their fenders.
- Objects thrown from windows— Even if the driver knows you're there, a passenger may not see you and might toss something on you or the road ahead of you.
- Blasts of wind from larger
 vehicles They can affect
 your control. You have more
 room for error if you are in the
 middle portion when hit by this
 blast than if you are on either
 side of the lane.

Do not move into the portion of the lane farthest from the passing vehicle. It might invite the other driver to cut back into your lane too early.





LANE SHARING

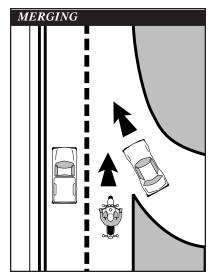
Cars and motorcycles need a full lane to operate safely. Lane sharing is usually prohibited.

Riding between rows of stopped or moving cars in the same lane can leave you vulnerable to the unexpected. A hand could come out of a window; a door could open; a car could turn suddenly. Discourage lane sharing by others. Keep a center-portion position whenever drivers might be tempted to squeeze by you. Drivers are most tempted to do this:

- In heavy, bumper-to-bumper traffic.
- When they want to pass you.
- When you are preparing to turn at an intersection.
- When you are getting in an exit lane or leaving a highway.

MERGING CARS

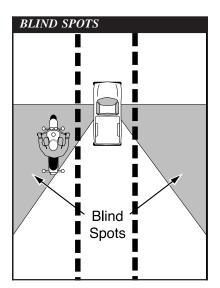
Drivers on an entrance ramp may not see you on the highway. Give them plenty of room. Change



to another lane if one is open. If there is no room for a lane change, adjust speed to open up space for the merging driver.

CARS ALONGSIDE

Do not ride next to cars or trucks in other lanes if you do not have to. You might be in the blind spot of a car in the next lane, which could switch into your lane without warning. Cars in the next lane also block your escape if you come upon danger in your own lane. Speed up or drop back to find a place clear of traffic on both sides.



4 Test Yourself Usually, a good way to handle tailgaters is to:

- A. Change lanes and let them pass.
- B. Use your horn and make obscene gestures.
- C. Speed up to put distance between you and the tailgater.
- D. Ignore them.

Answer - page 40